# Performance Data Sheet

## AWG5530EXT

## General Information

| | | | |
|---|---|---|---|
| **Model** | AWG5530EXT | **Refrigerant** | R-22 |
| **Test Condition** | ARI | **Performance Test Voltage** | 230V 3~ 60HZ |
| **Return Gas** | 18.3°C (65°F) RETURN GAS | **Motor Type** | 3PH |

## Performance Information

| Evap Temp (°F) | | Condensing Temperature (°F) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | **80** | **90** | **100** | **110** | **120** | **130** | **140** |
| **-15** | Btu/h | 8820 | 7330 | | | | | |
| | Watts | 1300 | 1250 | | | | | |
| | Amps | 4.77 | 4.73 | | | | | |
| | Lb/h | 115 | 98.1 | | | | | |
| **-10** | Btu/h | 10300 | 8900 | 7540 | | | | |
| | Watts | 1400 | 1380 | 1360 | | | | |
| | Amps | 5.01 | 5.01 | 4.98 | | | | |
| | Lb/h | 133 | 118 | 104 | | | | |
| **-5** | Btu/h | 11900 | 10600 | 9290 | 8030 | | | |
| | Watts | 1490 | 1500 | 1500 | 1510 | | | |
| | Amps | 5.21 | 5.26 | 5.27 | 5.28 | | | |
| | Lb/h | 153 | 140 | 128 | 115 | | | |
| **0** | Btu/h | 13800 | 12400 | 11200 | 9920 | 8740 | | |
| | Watts | 1580 | 1600 | 1630 | 1660 | 1690 | | |
| | Amps | 5.40 | 5.48 | 5.54 | 5.58 | 5.64 | | |
| | Lb/h | 175 | 164 | 153 | 141 | 131 | | |
| **5** | Btu/h | 15800 | 14500 | 13200 | 11900 | 10700 | | |
| | Watts | 1660 | 1700 | 1750 | 1800 | 1850 | | |
| | Amps | 5.56 | 5.68 | 5.77 | 5.86 | 5.95 | | |
| | Lb/h | 199 | 189 | 179 | 169 | 159 | | |
| **10** | Btu/h | 18000 | 16700 | 15300 | 14100 | 12800 | 11600 | 10500 |
| | Watts | 1730 | 1800 | 1870 | 1930 | 2010 | 2080 | 2160 |
| | Amps | 5.70 | 5.86 | 5.99 | 6.11 | 6.25 | 6.42 | 6.65 |
| | Lb/h | 225 | 216 | 207 | 198 | 189 | 180 | 172 |
| **15** | Btu/h | 20400 | 19000 | 17700 | 16300 | 15000 | 13700 | 12500 |
| | Watts | 1790 | 1880 | 1970 | 2060 | 2150 | 2240 | 2340 |
| | Amps | 5.82 | 6.03 | 6.19 | 6.35 | 6.52 | 6.73 | 7.00 |
| | Lb/h | 253 | 245 | 237 | 228 | 219 | 211 | 203 |
| **20** | Btu/h | 23100 | 21600 | 20200 | 18700 | 17300 | 15900 | 14600 |
| | Watts | 1860 | 1960 | 2070 | 2170 | 2280 | 2390 | 2500 |
| | Amps | 5.94 | 6.18 | 6.38 | 6.57 | 6.78 | 7.02 | 7.33 |
| | Lb/h | 284 | 277 | 269 | 260 | 251 | 243 | 235 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **25** | Btu/h | 26000 | 24400 | 22900 | 21300 | 19800 | 18300 | 16800 |
| | Watts | 1920 | 2040 | 2160 | 2280 | 2400 | 2530 | 2650 |
| | Amps | 6.04 | 6.32 | 6.56 | 6.79 | 7.03 | 7.31 | 7.65 |
| | Lb/h | 318 | 311 | 303 | 294 | 285 | 276 | 267 |
| **30** | Btu/h | 29100 | 27500 | 25800 | 24100 | 22400 | 20700 | 19100 |
| | Watts | 1970 | 2110 | 2250 | 2390 | 2520 | 2660 | 2800 |
| | Amps | 6.14 | 6.45 | 6.73 | 6.99 | 7.27 | 7.59 | 7.96 |
| | Lb/h | 354 | 347 | 339 | 330 | 320 | 311 | 301 |
| **35** | Btu/h | 32600 | 30700 | 28900 | 27000 | 25100 | 23300 | 21500 |
| | Watts | 2030 | 2180 | 2330 | 2480 | 2630 | 2780 | 2930 |
| | Amps | 6.24 | 6.59 | 6.90 | 7.20 | 7.51 | 7.86 | 8.26 |
| | Lb/h | 394 | 386 | 377 | 368 | 357 | 347 | 336 |
| **40** | Btu/h | 36300 | 34300 | 32200 | 30100 | 28100 | 26000 | 24000 |
| | Watts | 2080 | 2250 | 2410 | 2570 | 2730 | 2890 | 3050 |
| | Amps | 6.34 | 6.72 | 7.07 | 7.40 | 7.75 | 8.13 | 8.57 |
| | Lb/h | 436 | 428 | 418 | 408 | 396 | 385 | 373 |
| **45** | Btu/h | 40300 | 38100 | 35800 | 33500 | 31200 | 28900 | 26600 |
| | Watts | 2130 | 2310 | 2490 | 2660 | 2830 | 3000 | 3170 |
| | Amps | 6.45 | 6.86 | 7.24 | 7.61 | 7.99 | 8.40 | 8.87 |
| | Lb/h | 482 | 473 | 462 | 450 | 438 | 425 | 411 |
| **50** | Btu/h | 44600 | 42200 | 39700 | 37100 | 34500 | 32000 | 29400 |
| | Watts | 2180 | 2380 | 2560 | 2750 | 2920 | 3100 | 3280 |
| | Amps | 6.56 | 7.01 | 7.42 | 7.82 | 8.23 | 8.68 | 9.18 |
| | Lb/h | 531 | 521 | 509 | 496 | 481 | 466 | 451 |
| **55** | Btu/h | 49300 | 46500 | 43800 | 40900 | 38100 | 35200 | 32400 |
| | Watts | 2240 | 2440 | 2640 | 2830 | 3010 | 3200 | 3380 |
| | Amps | 6.69 | 7.17 | 7.62 | 8.05 | 8.49 | 8.97 | 9.50 |
| | Lb/h | 584 | 572 | 558 | 543 | 527 | 510 | 493 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|---|---|---|---|---|
| C1 | 2.277834E+04 | 1.177675E+03 | 6.493396E-01 | 2.248267E+02 |
| C2 | 2.943742E+02 | -2.564813E+01 | -3.208034E-02 | 1.249848E+00 |
| C3 | -7.515598E+01 | 9.160166E+00 | 1.333443E-01 | 1.443287E-01 |
| C4 | 8.094708E+00 | 6.518772E-02 | -3.516387E-04 | 8.512702E-02 |
| C5 | 1.729113E+00 | 5.781295E-01 | 8.612174E-04 | 5.291606E-02 |
| C6 | -7.143799E-01 | -7.411563E-02 | -1.244809E-03 | -1.338573E-02 |
| C7 | 1.783065E-02 | 1.042048E-03 | 4.714222E-06 | 1.973001E-04 |
| C8 | -5.359485E-02 | -2.480950E-03 | -1.281790E-06 | -5.503762E-04 |
| C9 | -7.887765E-03 | -6.961918E-04 | -4.058866E-07 | -1.415064E-04 |
| C10 | 3.046743E-03 | 2.784562E-04 | 3.999666E-06 | 4.714080E-05 |

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature